

Intermountain Consumer Professional Engineers, Inc.

Consulting Engineers
1145 East South Union Avenue
Midvale, Utah 84047

May 31, 2005

RE: College of Eastern Utah
Central Tunnel Replacement, Phase II

DFCM Project #: 03217610

Addendum #1

Item #1: ALTERNATE #1 - The following work will be bid as **ALTERNATE #1** to the project, based on the following description and drawing changes. Alternate #1 will include removal of a portion of the existing tunnel lid located adjacent to Manhole #1 at the North end of the existing tunnel. That portion of the existing tunnel lid will be removed to facilitate access for piping removal, piping connections and valve placement. The new lid will also be reinforced to adequately support fire equipment as required by the fire lane being developed for the campus.

Drawing Sheet CU-101 – See ALTERNATE #1 bubble at north tunnel location near Manhole #1 for drawing information.

Drawing Sheet CU-102 – See ALTERNATE #1 bubble at north tunnel location near Manhole #1 for drawing information.

Drawing Sheet C-302 – See ALTERNATE #1 bubble on C6 Tunnel Detail.

Drawing Sheet C-303 – See ALTERNATE #1 bubble on details C13 Manhole MH-1 Sidewalk Detail and C14 Tunnel Detail.

Drawing Sheet M-101 – See ALTERNATE #1 bubble at north tunnel location near Manhole #1 and on Enlarged Plan #3 and Keyed Notes 6, 14 & 15 for drawing information.

Drawing Sheet M-301 – See ALTERNATE #1 bubble on Manhole 1 Enlarged Plan #10, Manhole 1 Section A, Manhole 1 Section B, and Keyed Notes 2, 6, 25 & 40 for drawing information.

Item #2: ALTERNATE #2 – The following work will be bid as **ALTERNATE #2** to the project, based on the following description and drawing changes. Alternate #2 will include extending the North sidewalk from the junction near Manhole #1 to the dorm area parking lot. The sidewalk will be a 20 ft. wide, reinforced sidewalk capable of supporting fire equipment as required by the fire lane being developed for the campus.

Drawing Sheet CU-103 – See ALTERNATE #2 bubble for drawing information.

Item #3: Electrical clarification:

Question: The Library and SAC Feeders are in 4" PVC encased in red concrete. The plans indicate using 4" GRS in the South Campus Feeder. Is this necessary and can we use 4" PVC in all locations where the conduit is encased in concrete?

CEU Central Tunnel Replacement, Phase II
Addendum #1

Answer: There is some misunderstanding about the South Campus Feeder. See keyed Notes 6, 10, & 11 on Dwg E-102. Following is a clarification of notes 6, 10 & 11. There is no change to the drawings.

Existing Pull Box B needs to be relocated 20 feet east on the north wall of the south tunnel. This PB needs to be relocated so that the South Feeder conduits and the Library Feeder conduits can be connected to the west end of the pull box. These conduits will be RGS because they will remain in the existing south tunnel - no encasement. This portion of the tunnel will not be demolished.

From Pull Box B there will be four conduits going east out of PB B, through the new wall in the old tunnel and then turning north and rising up to enter the extended existing Manhole 3, where the four conduits will be fastened to the underside of the roof of MH 3. The conduits shall be Rigid Galvanized Steel (RGS).

After leaving MH 3 and going north, the four RGS conduits are to go down to the floor of the old tunnel and connect to the PVC conduits. Two of these conduits will turn out to the Library and connect to the existing Pull Box D in the new tunnel. Two of these conduits will continue to the intersection of the north tunnel and the west tunnel. These conduits will be PVC except for the turns and risers, which will be RGS. At this point turn west into the north tunnel using RGS conduit to existing Pull Box A - no encasement. The north tunnel will not be demolished.

All conduits installed in demolished tunnel shall be encased in red concrete.

END of Addendum #1

BID FORM
(Revised Form)

NAME OF BIDDER _____ DATE _____

To the Division of Facilities Construction and Management
4110 State Office Building
Salt Lake City, Utah 84114

The undersigned, responsive to the "Notice to Contractors" and in accordance with the Request for Bids for the **CENTRAL TUNNEL REPLACEMENT PHASE II AND HIGH VOLTAGE SYSTEM UPGRADE, COLLEGE OF EASTERN UTAH, PRICE, UTAH** and having examined the Contract Documents and the site of the proposed Work and being familiar with all of the conditions surrounding the construction of the proposed Project, including the availability of labor, hereby proposes to furnish all labor, materials and supplies as required for the Work in accordance with the Contract Documents as specified and within the time set forth and at the price stated below. This price is to cover all expenses incurred in performing the Work required under the Contract Documents of which this bid is a part:

I/We acknowledge receipt of the following Addenda: _____

For all work shown on the Drawings and described in the Specifications and Contract Documents, I/we agree to perform for the sum of:

BASE BID:

_____ DOLLARS (\$_____)
(In case of discrepancy, written amount shall govern)

ADDITIVE ALTERNATE #1:

_____ DOLLARS (\$_____)
(In case of discrepancy, written amount shall govern)

ADDITIVE ALTERNATE #1:

_____ DOLLARS (\$_____)
(In case of discrepancy, written amount shall govern)

I/We guarantee that the Work will be Substantially Complete by **September 30, 2005**, should I/we be the successful bidder, and agree to pay liquidated damages in the amount of **\$325** per day for each day after expiration of the Contract Time as stated in Article 3 of the Contractor's Agreement.

This bid shall be good for 45 days after bid opening.

BID FORM
PAGE NO. 2

Enclosed is a 5% bid bond, as required, in the sum of _____

The undersigned Contractor's License Number for Utah is _____.

Upon receipt of notice of award of this bid, the undersigned agrees to execute the contract within ten (10) days, unless a shorter time is specified in Contract Documents, and deliver acceptable Performance and Payment bonds in the prescribed form in the amount of 100% of the Contract Sum for faithful performance of the contract. The Bid Bond attached, in the amount not less than five percent (5%) of the above bid sum, shall become the property of the Division of Facilities Construction and Management as liquidated damages for delay and additional expense caused thereby in the event that the contract is not executed and/or acceptable 100% Performance and Payment bonds are not delivered within time set forth.

Type of Organization:

(Corporation, Partnership, Individual, etc.)

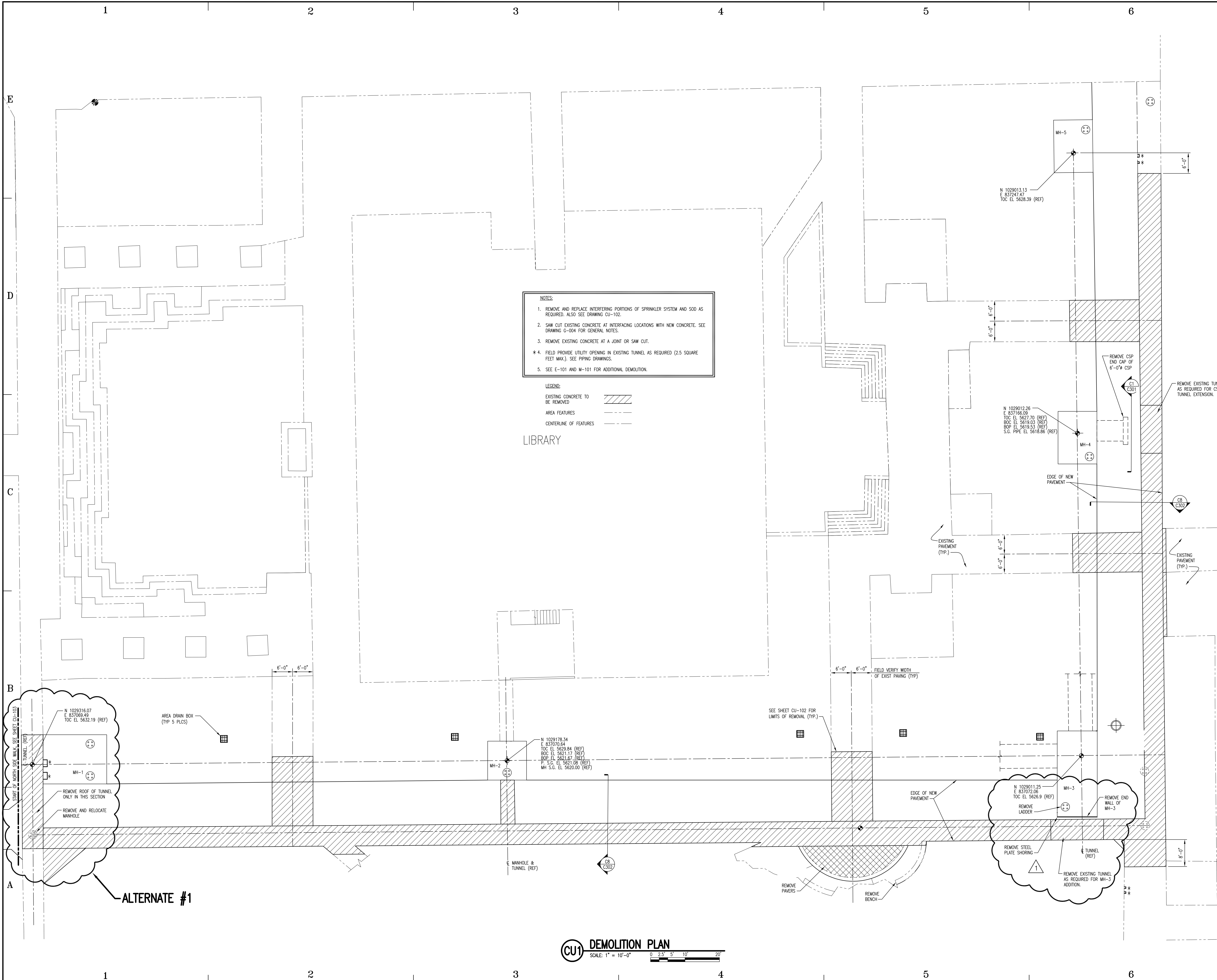
Any request and information related to Utah Preference Laws:

Respectfully submitted,

Name of Bidder


ADDRESS:

Authorized Signature



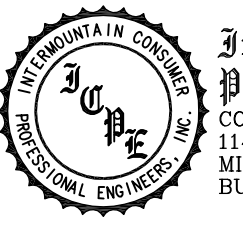
- NOTES:
1. REMOVE AND REPLACE INTERFERING PORTIONS OF SPRINKLER SYSTEM AND SOD AS REQUIRED. ALSO SEE DRAWING CU-102.
 2. SAW CUT EXISTING CONCRETE AT INTERFACING LOCATIONS WITH NEW CONCRETE. SEE DRAWING G-004 FOR GENERAL NOTES.
 3. REMOVE EXISTING CONCRETE AT A JOINT OR SAW CUT.
 - * 4. FIELD PROVIDE UTILITY OPENING IN EXISTING TUNNEL AS REQUIRED (2.5 SQUARE FEET MAX.). SEE PIPING DRAWINGS.
 5. SEE E-101 AND M-101 FOR ADDITIONAL DEMOLITION.

- LEGEND:
- EXISTING CONCRETE TO BE REMOVED
 - AREA FEATURES
 - CENTERLINE OF FEATURES




State of Utah—Department of Administrative Services
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410 State Office Building/Salt Lake City, Utah 84114/208-2018

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REGISTERED PROFESSIONAL ENGINEER
No. 156976
NED R. HARDEN
STATE OF UTAH

COLLEGE OF EASTERN UTAH

PRICE, UTAH

CENTRAL TUNNEL REPLACEMENT

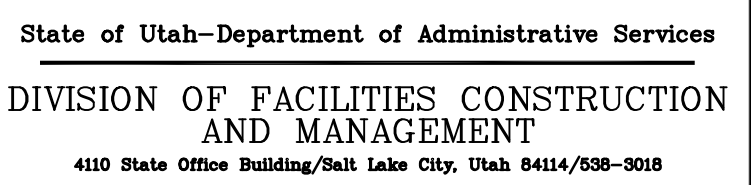
STATE PROPERTY ID. #02061
DFCM PROJECT #03217610

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PROJECT NO: 10-095		
CAD DWG FILE: CU-DP-101		
DRAWN BY: KPN		
CHECKED BY: NRH		

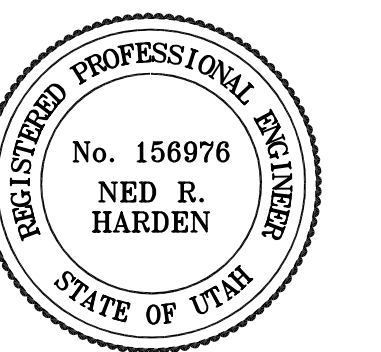
SHEET TITLE

DEMOLITION PLAN

CU-101
SHEET 5 OF 22



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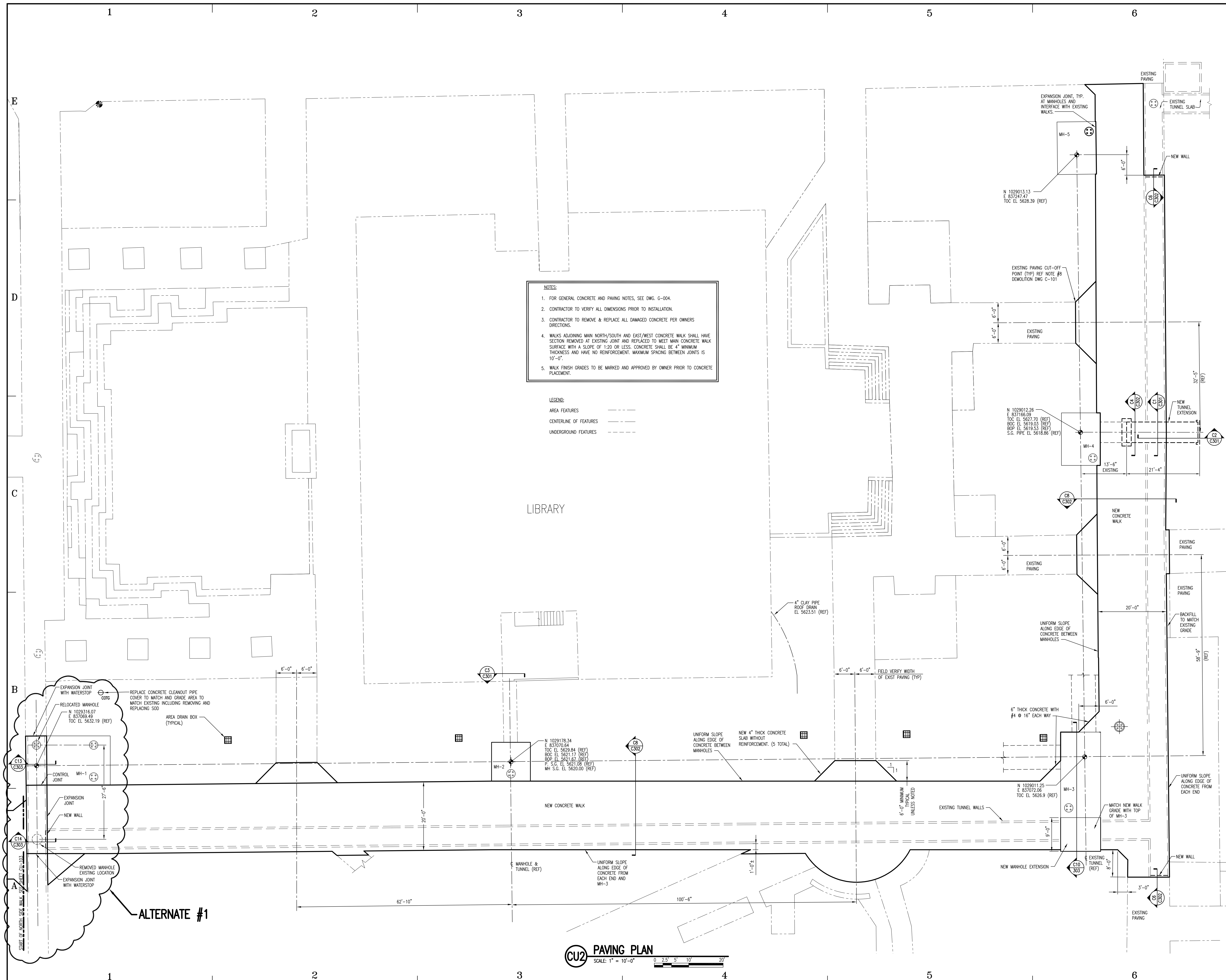
PRICE, UTAH

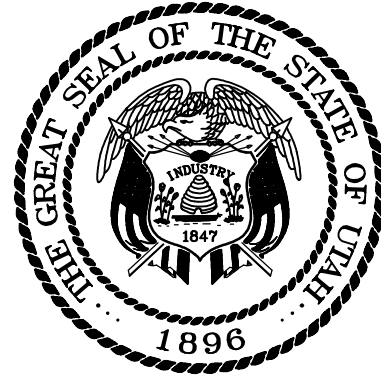
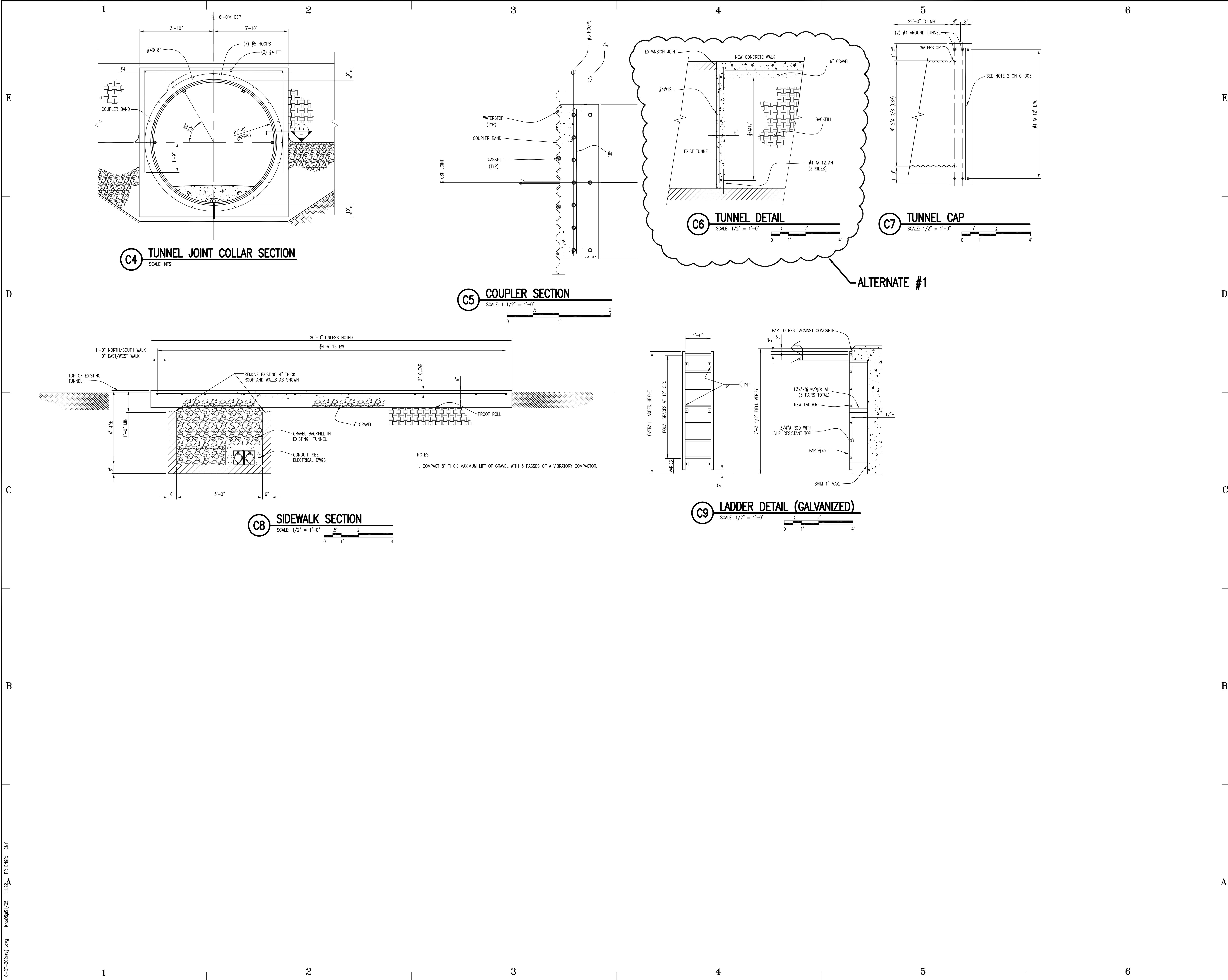
CENTRAL TUNNEL REPLACEMENT

STATE PROPERTY ID. #02061
DFCM PROJECT #03217610

SHEET TITLEPAVING AND
STRUCTURAL PLAN

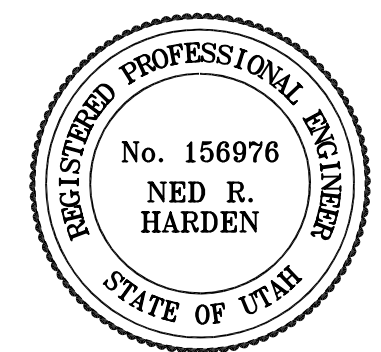
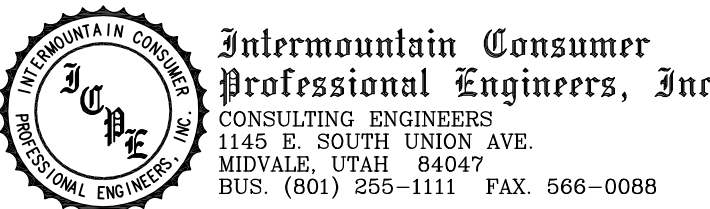
CU-102
SHEET 6 OF 22





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CENTRAL TUNNEL
REPLACEMENT

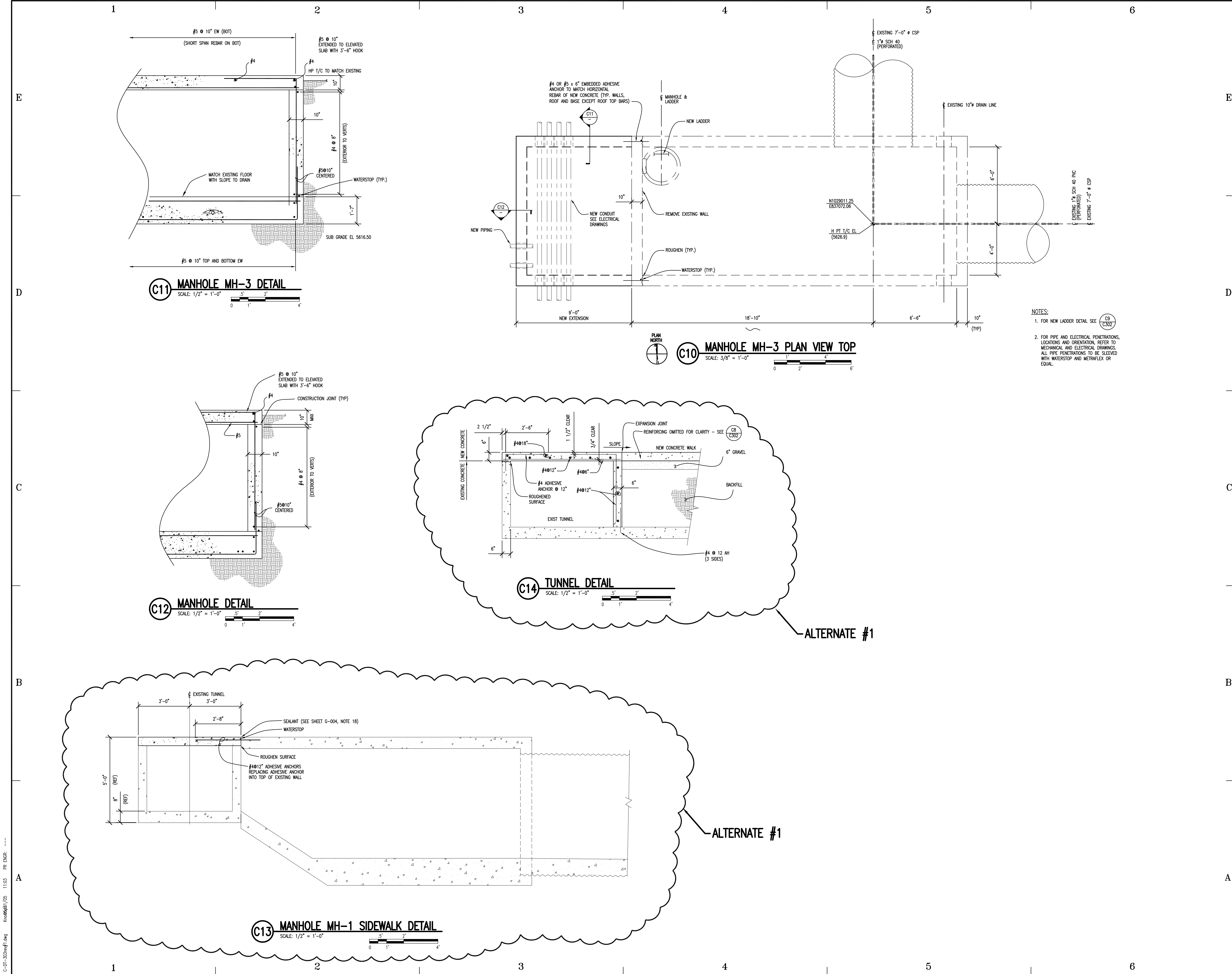
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DRAWN BY:		KPN
CHECKED BY:		NRH

SHEET TITLE

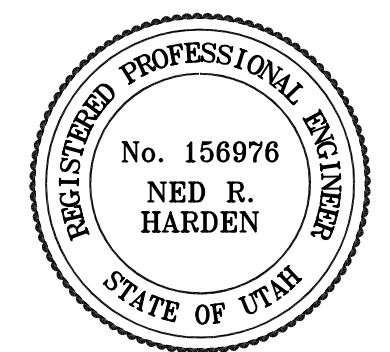
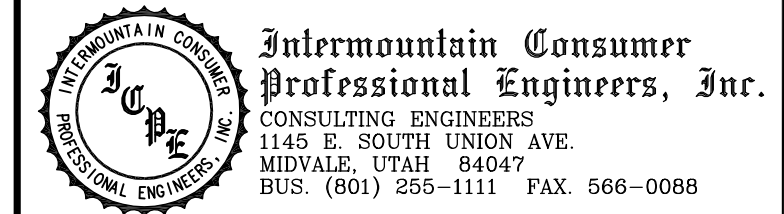
TUNNEL SECTIONS
AND DETAILS

C - 302
SHEET 8 OF 22



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CENTRAL TUNNEL
REPLACEMENT

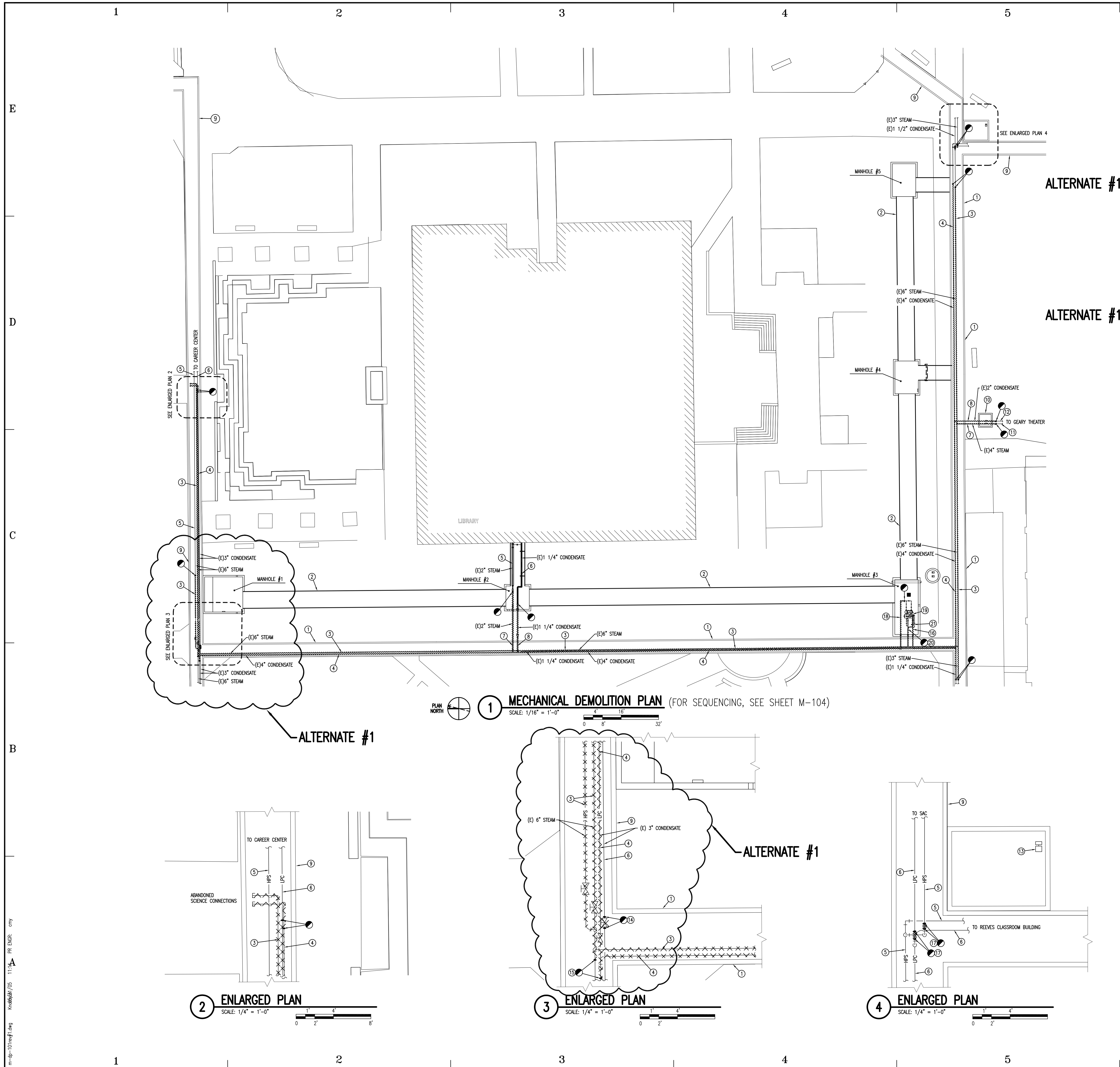
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PROJECT NO: 10-095		
CAD DWG FILE: C-DT-303		
DRAWN BY: KPN		
CHECKED BY: NRH		

SHEET TITLE

TUNNEL SECTIONS
AND DETAILS

C-303
SHEET 9 OF 22



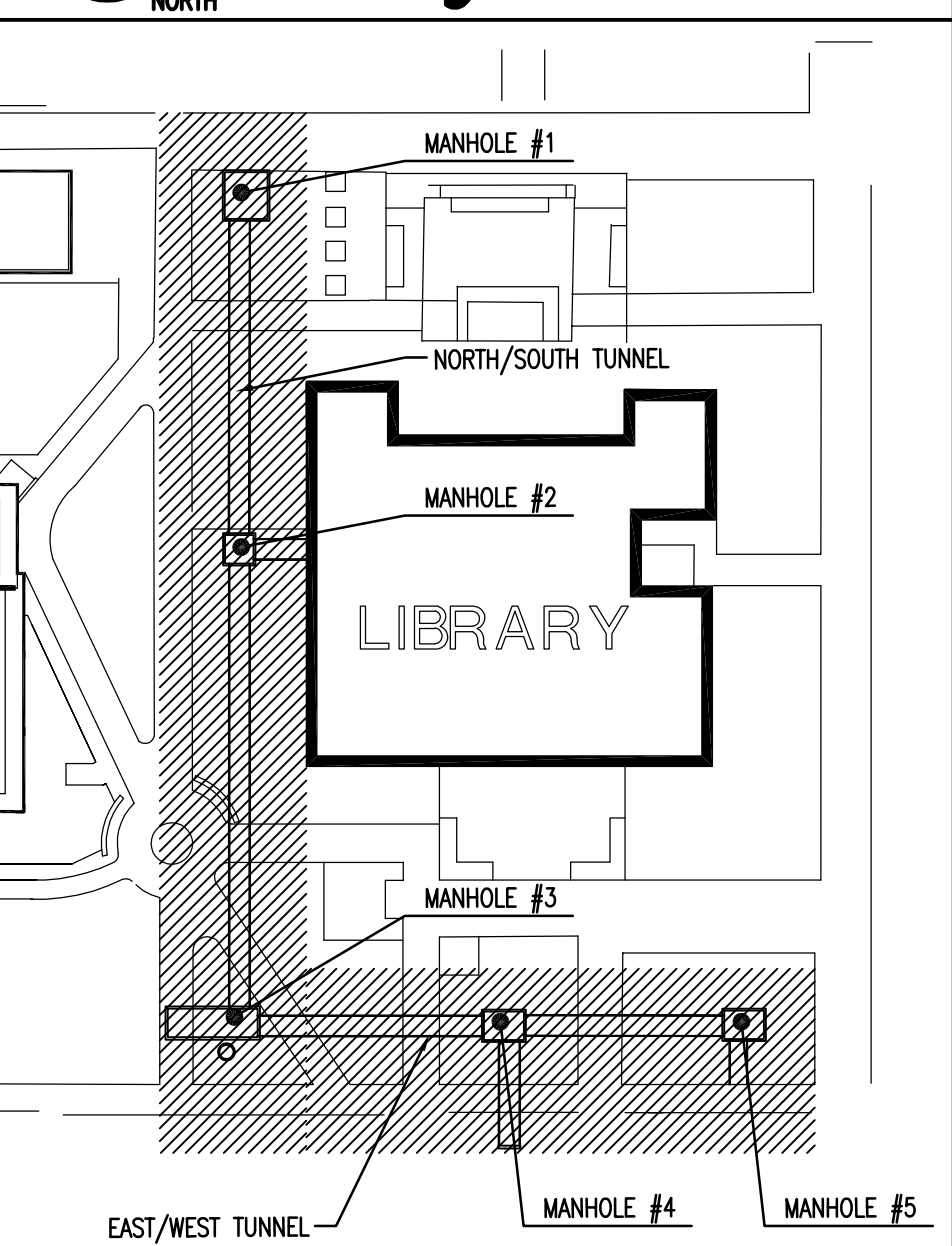
Keyed Notes

- EXISTING CONCRETE UTILITY TUNNEL BELOW GRADE TO BE ABANDONED AND BACKFILLED UNDER THIS CONTRACT. SEE STRUCTURAL DRAWINGS.
- EXISTING STEEL UTILITY TUNNEL BELOW GRADE TO REMAIN. SEE SHEET M-102 FOR NEW MECHANICAL IN TUNNEL SYSTEM.
- DEMOLISH EXISTING STEAM PIPING IN UTILITY TUNNEL.
- DEMOLISH EXISTING CONDENSATE PIPING IN UTILITY TUNNEL.
- EXISTING STEAM PIPING IN UTILITY TUNNEL TO REMAIN.
- EXISTING CONDENSATE PIPING IN UTILITY TUNNEL TO REMAIN. SEE SHEET M-301 FOR NEW CONDENSATE PIPING.
- DEMOLISH EXISTING DIRECT BURIED STEAM PIPING.
- DEMOLISH EXISTING DIRECT BURIED CONDENSATE PIPING.
- EXISTING CONCRETE UTILITY TUNNEL BELOW GRADE TO REMAIN. SEE STRUCTURAL DRAWINGS.
- DEMOLISH EXISTING MANHOLE. REMOVE EXISTING 4\"/>
- EXISTING DIRECT BURIED STEAM PIPING TO REMAIN. SEE MANHOLE #4 ON SHEET M-302 FOR CONNECTION TO NEW STEAM PIPING.
- EXISTING DIRECT BURIED CONDENSATE PIPING TO REMAIN. SEE MANHOLE #4 ON SHEET M-302 FOR CONNECTION TO NEW CONDENSATE PIPING.
- EXISTING SUMP PUMP TO REMAIN. SHOWN FOR REFERENCE ONLY.
- DEMOLISH EXISTING VALVE. SEE SHEET M-301 FOR NEW WORK.
- SEE SHEET M-301 FOR NEW CONNECTIONS TO EXISTING STEAM AND CONDENSATE PIPING.
- DEMOLISH EXISTING CONDENSATE PIPING. COORDINATE TERMINATION OF DEMOLITION WITH NEW CONDENSATE PIPING TO BE INSTALLED IN THIS AREA. SEE MANHOLE #3 ON SHEET M-301.
- CONTRACTOR TO REMOVE PIPE BETWEEN POINTS INDICATED TO ALLOW FOR INSTALLATION OF NEW VALVES. SEE SHEET M-302.
- DEMOLISH EXISTING PUMPED CONDENSATE PIPING FROM FLANGED CONNECTION AT CONDENSATE PUMP. SEE MANHOLE #3 ON SHEET M-301 FOR NEW CONDENSATE PIPING.
- EXISTING CONDENSATE PUMP TO REMAIN. SEE MANHOLE #3 ON SHEET M-301 FOR NEW WORK.
- DEMOLISH EXISTING STEAM PIPING. COORDINATE TERMINATION OF DEMOLITION WITH NEW STEAM PIPING TO BE INSTALLED IN THIS AREA. SEE MANHOLE #3 ON SHEET M-301.
- REMOVE EXISTING 4\"/>
- TERMINATE DEMOLITION OF EXISTING GRAVITY CONDENSATE PIPING AT FLANGED CONNECTION OF EXISTING CONDENSATE PUMP.

General Notes

- CONTRACTOR TO FIELD VERIFY AND ADJUST AS NECESSARY FOR EXISTING CONDITIONS.
- COORDINATE ALL DEMOLITION OF PIPING AND EQUIPMENT WITH OTHER DISCIPLINES AND SEQUENCE WITH NEW CONSTRUCTION AS INDICATED IN THE DRAWINGS.

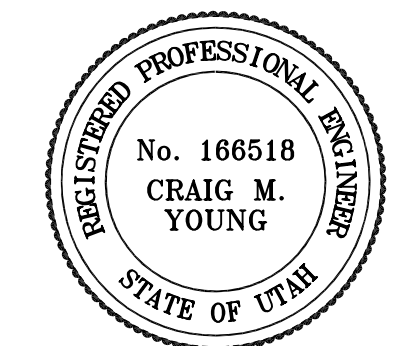
Key Plan



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CONSULTANTS

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COLLEGE OF EASTERN UTAH

PRICE, UTAH

CENTRAL TUNNEL
REPLACEMENT

STATE PROPERTY ID. #02061
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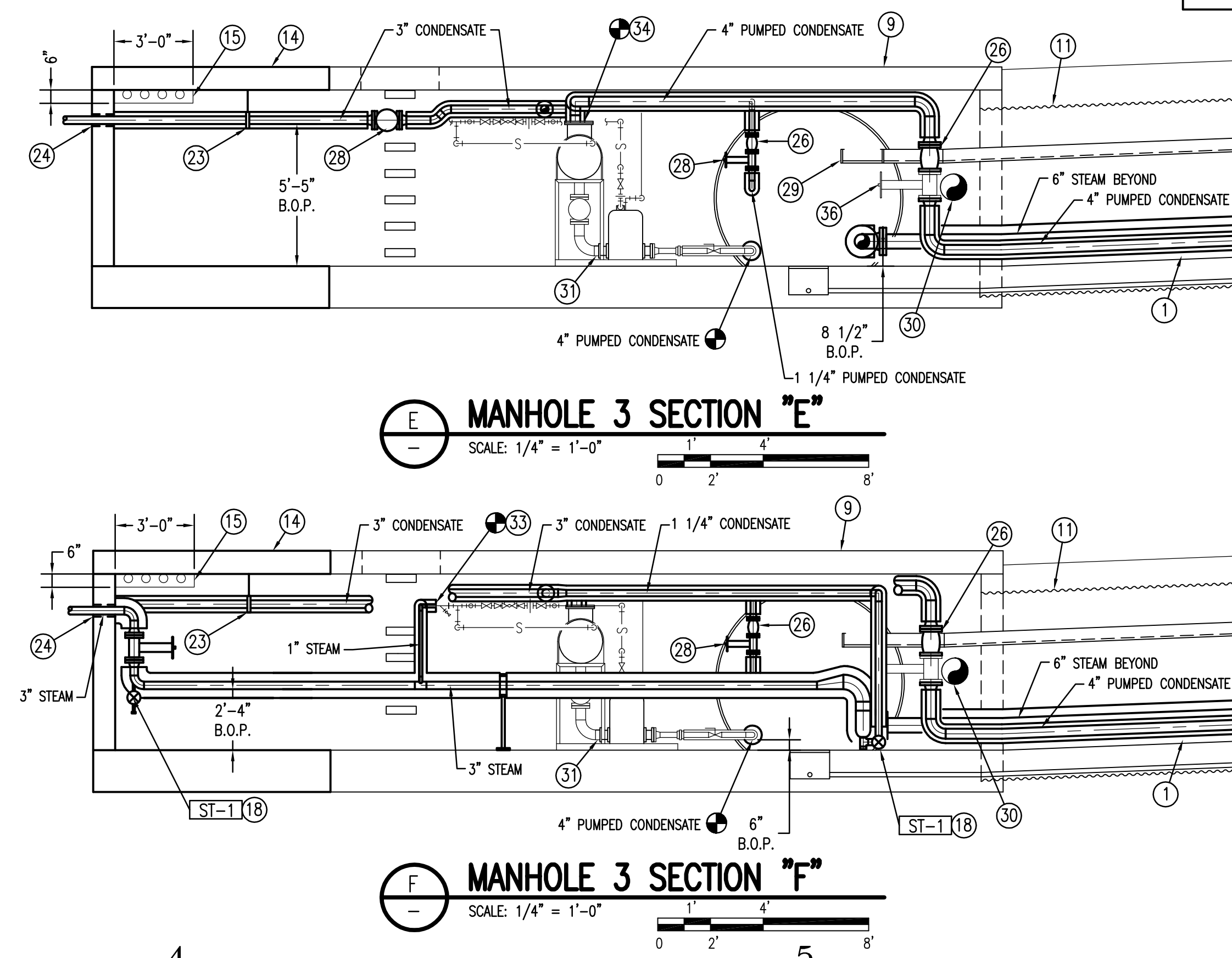
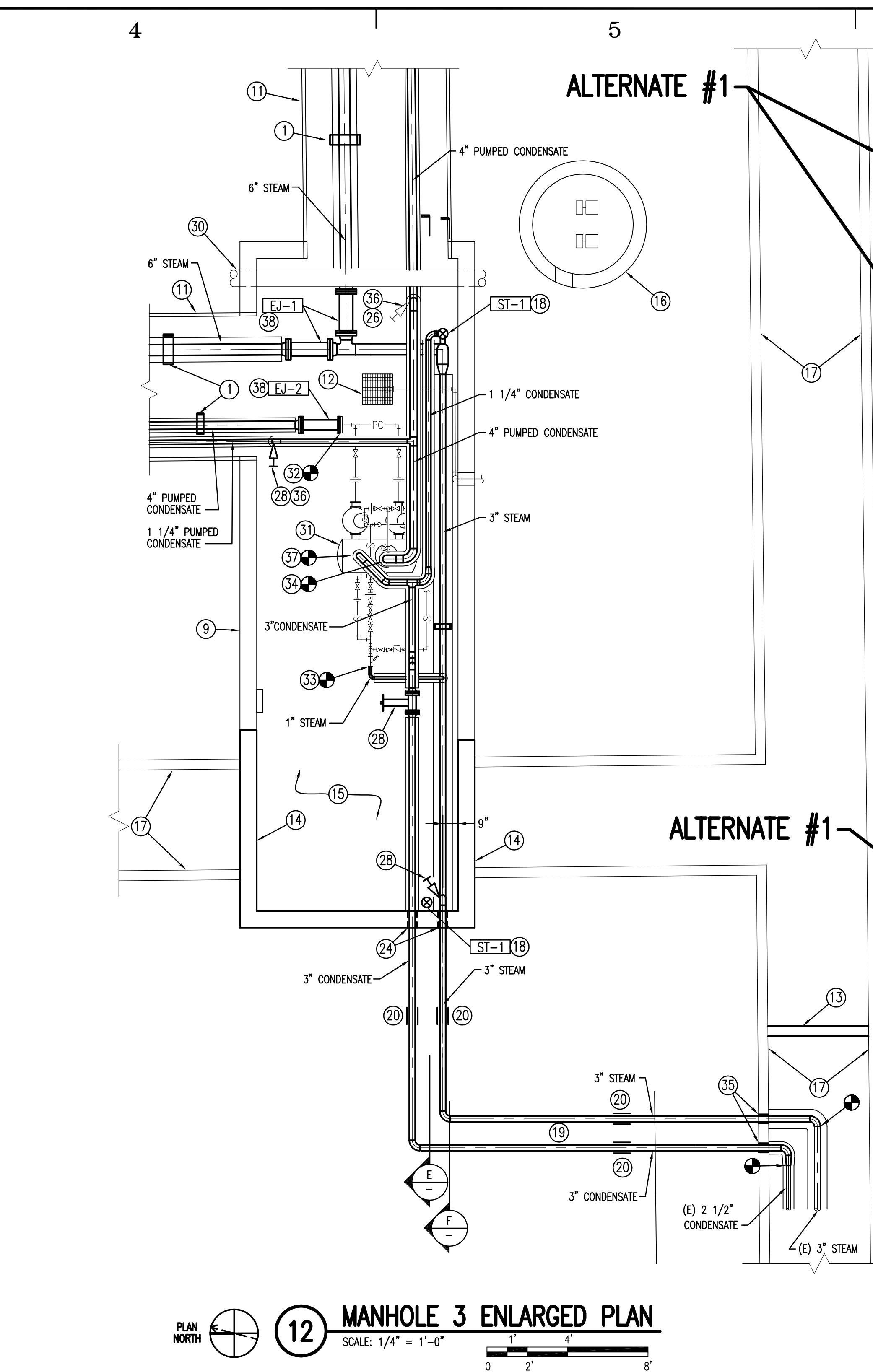
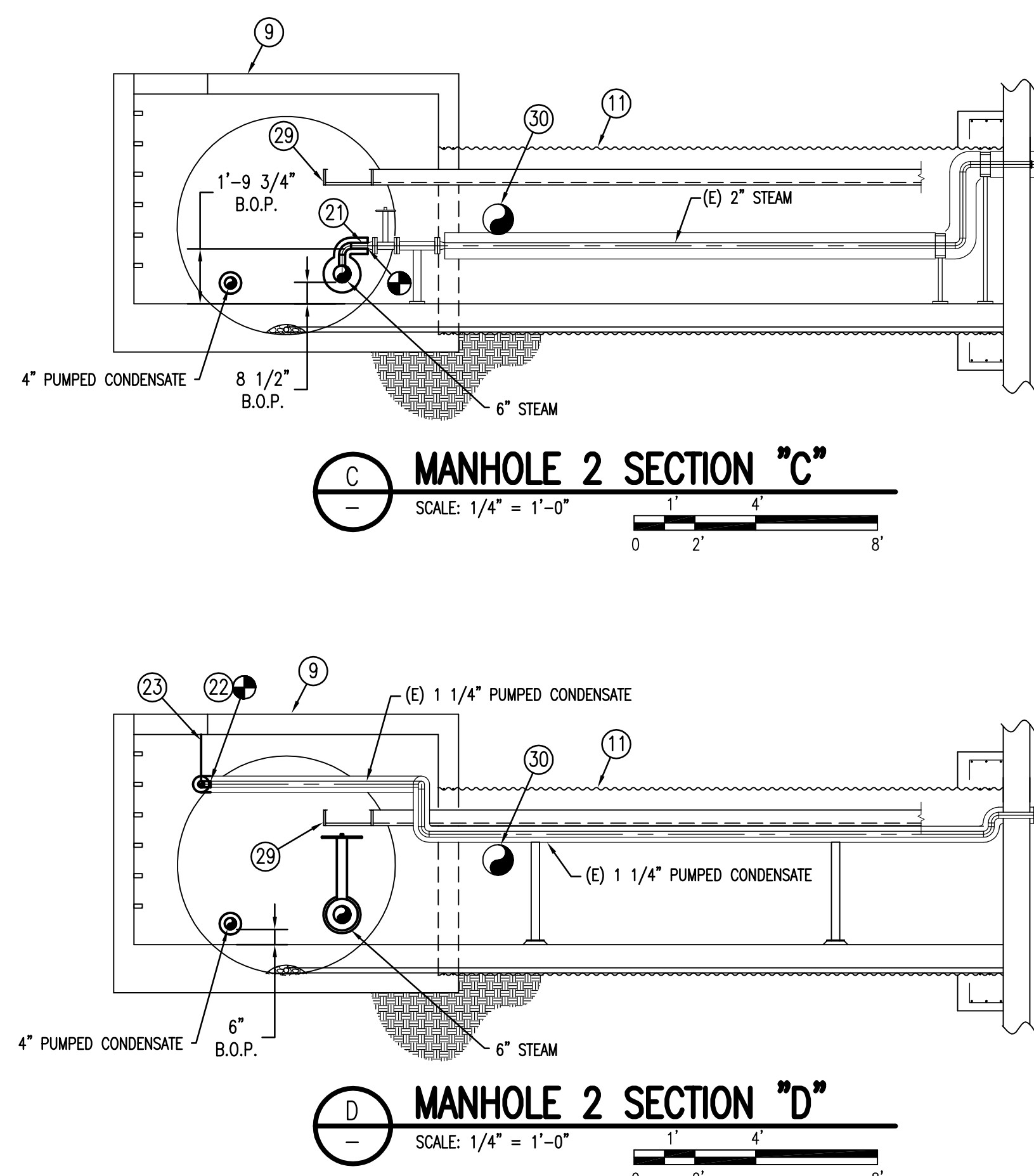
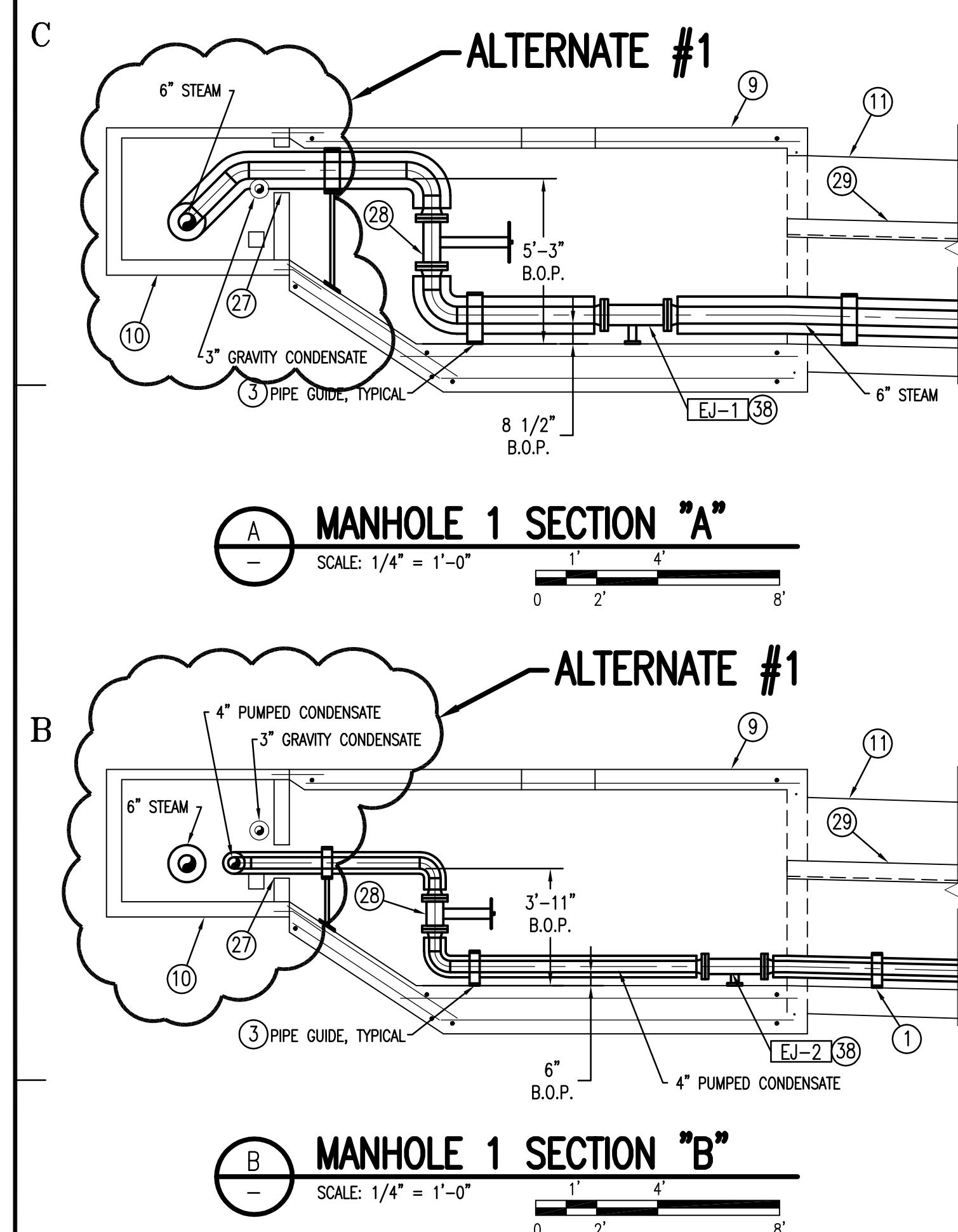
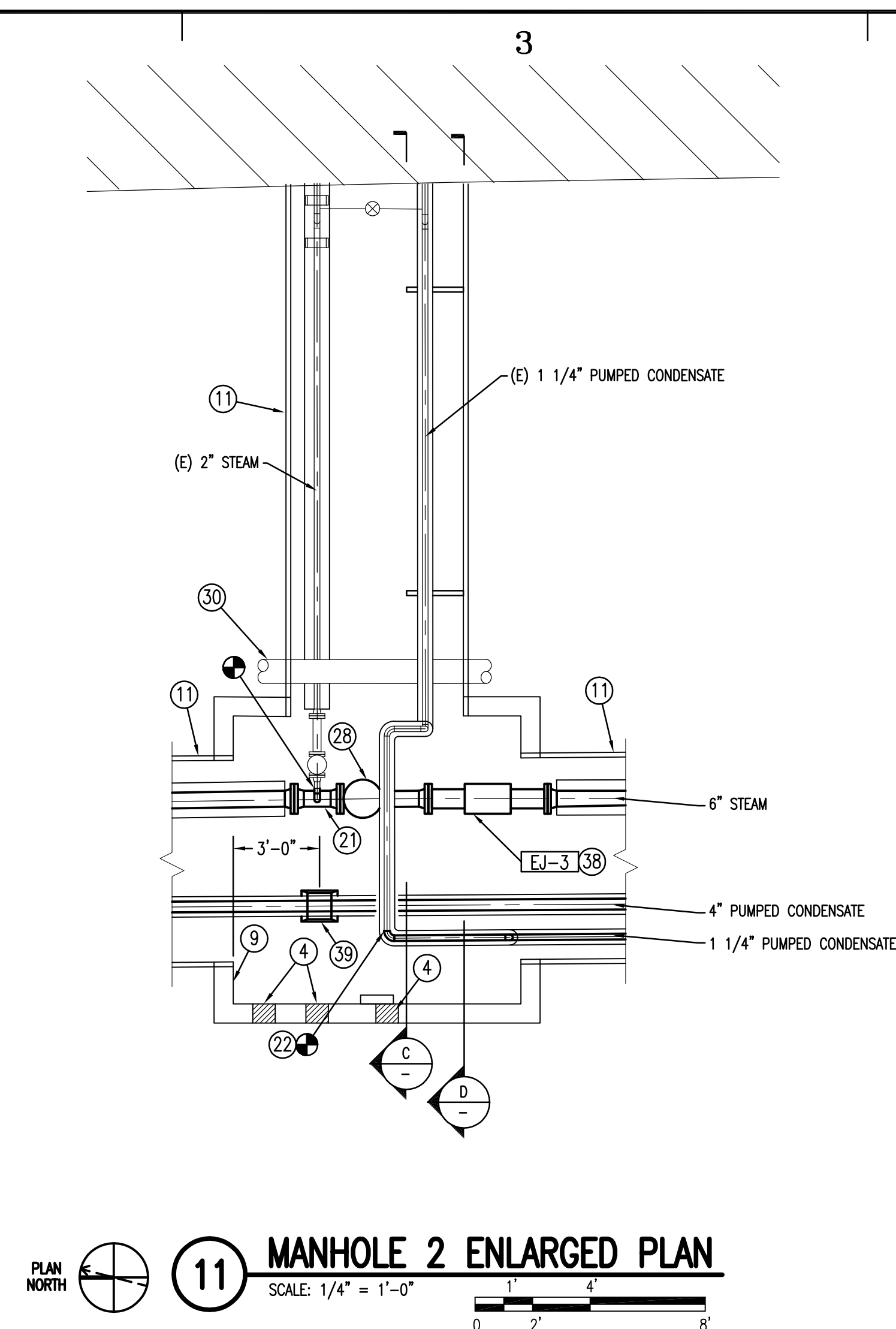
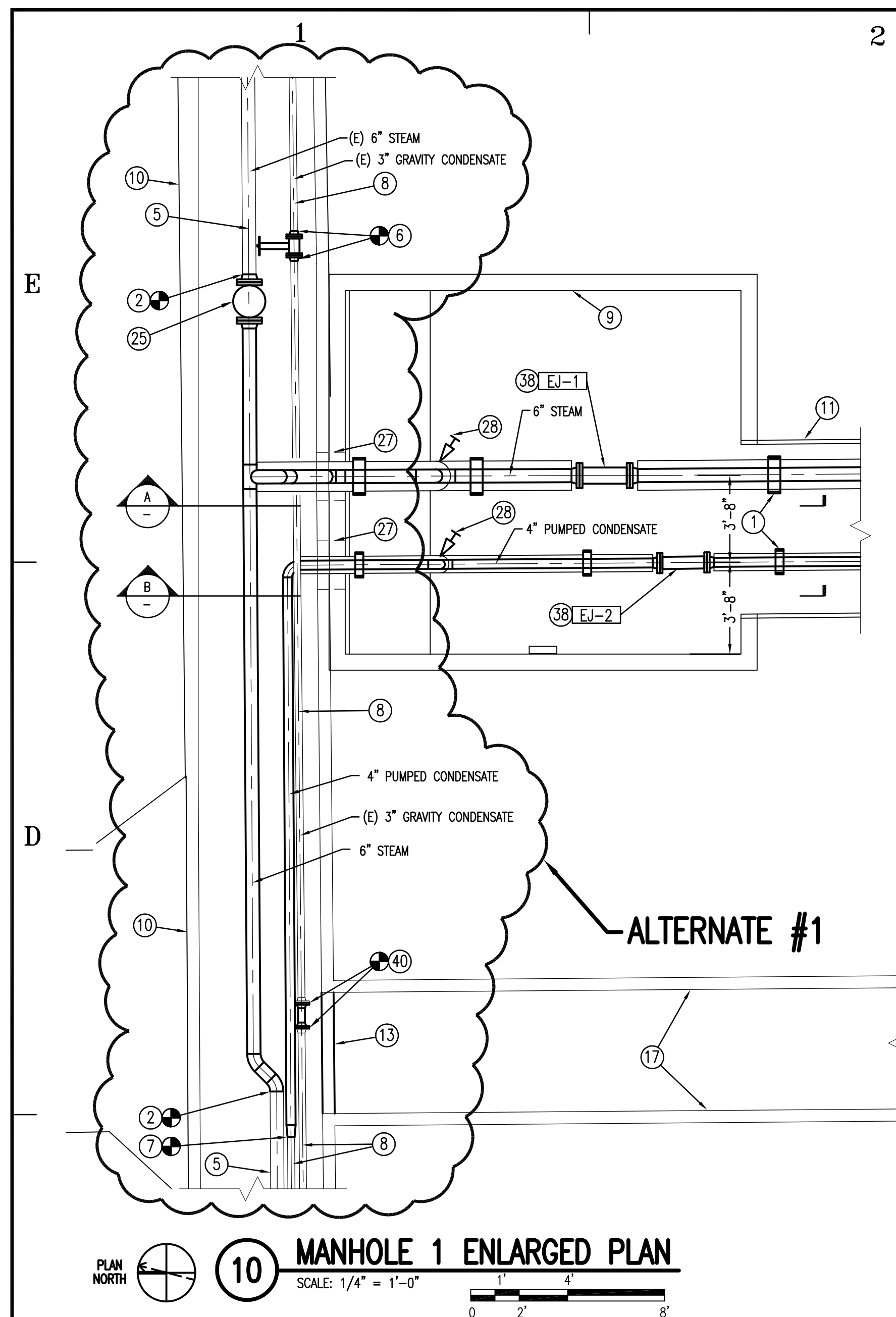
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ISSUE DATE: 05/23/05		
PROJECT NO: 10-095		
CAD DWG FILE: M-DP-101		
DRAWN BY: KPN		
CHECKED BY: RDT		

SHEET TITLE

MECHANICAL
DEMOLITION PLAN

M - 101

SHEET 10 OF 22

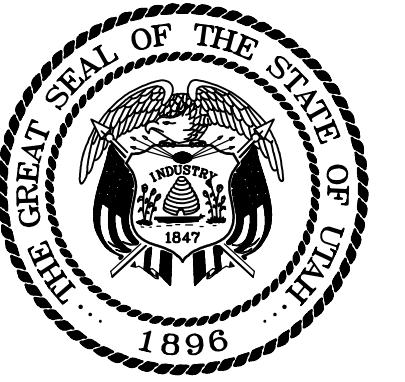


- ## Keyed Notes

1. SEE MECHANICAL PLANS ON SHEET M-102 FOR LOCATIONS OF ANCHORS AND GUIDES IN EXISTING STEAM UTILITY TUNNEL LOCATED BETWEEN MANHOLES.
2. NEW CONNECTION TO EXISTING STEAM MAIN. ISOLATE MAN AND INSTALL NEW PIPING, VALVE AND FITTINGS AS SHOWN.
3. REFER TO MECHANICAL DETAIL SHEET M-501 FOR SUPPORT, GUIDES AND OTHER ANCHOR DETAILS.
4. SEAL EXISTING OPENING IN CONCRETE MANHOLE.
5. EXISTING STEAM PIPING TO REMAIN. CONTRACTOR TO REPORT CONDITION OF PIPING TO OWNERS REPRESENTATIVE IN THE FIELD.
6. NEW 3" CONDENSATE VALVE TO BE CUT INTO EXISTING CONDENSATE PIPING.
7. CONNECT NEW CONDENSATE PIPING INTO EXISTING.
8. EXISTING CONDENSATE PIPING TO REMAIN. CONTRACTOR TO REPORT CONDITION OF PIPING TO OWNERS REPRESENTATIVE IN THE FIELD.
9. EXISTING CONCRETE UTILITY MANHOLE.
10. EXISTING CONCRETE UTILITY TUNNEL.
11. EXISTING STEEL UTILITY TUNNEL.
12. EXISTING TUNNEL DOWATERING SUMP. SHOWN FOR REFERENCE ONLY.
13. NEW CONCRETE WALL TO BE INSTALLED IN EXISTING TUNNEL. SEE STRUCTURAL DRAWINGS.
14. EXISTING CONCRETE MANHOLE TO BE MODIFIED AND EXTENDED. SEE STRUCTURAL DRAWINGS.
15. PROVIDE SPACE FOR ELECTRICAL CONDUIT TO BE INSTALLED AT UNDERSIDE OF THE MANHOLE CEILING. MECHANICAL CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL PIPING IN THIS AREA WITH ELECTRICAL DRAWINGS.
16. EXISTING MANHOLE AND PUMP PUMPS. SHOWN FOR REFERENCE ONLY.
17. UTILITY TUNNEL TO BE ABANDONED UNDER THIS CONTRACT. SEE STRUCTURAL DRAWINGS.
18. STEAM TRAP. SEE DETAIL 9 ON SHEET M-501.
19. PLACE DIRECT BURIED STEAM AND CONDENSATE PIPING IN LOOSE FILL INSULATION TRENCH. REFER TO DETAILS 5-7 ON SHEET M-501.
20. PIPE GUIDES. SEE DETAIL 9 ON SHEET M-501.
21. CONNECT EXISTING STEAM BRANCH PIPING INTO NEW STEAM MAIN.
22. CONNECT EXISTING CONDENSATE PIPING INTO EXISTING.
23. HANG UPPER CONDENSATE PIPE FROM CEILING IN MANHOLE AREA. SEE PIPE HANGER DETAIL 3 ON M-501.
24. SLEEVE CAST IN PLACE FOR PIPING. COORDINATE WITH STRUCTURAL. SEE DETAIL 1 ON SHEET M-501 FOR PIPE SEAL.
25. NEW 6" STEAM VALVE WITH NON-RISING STEM AND INDICATING POST. THIS VALVE ONLY.
26. CHECK VALVE. SEE SPECIFICATIONS.
27. NEW OPENING BETWEEN TUNNEL AND MANHOLE. COORDINATE EXACT LOCATION IN THE FIELD. SEE STRUCTURAL DRAWINGS.
28. NEW VALVE, TYPICAL. SEE SPECIFICATIONS.
29. EXISTING ELECTRICAL CABLE TRAY. SHOWN FOR REFERENCE ONLY.
30. EXISTING STORM DRAIN PIPE. SHOWN FOR REFERENCE ONLY.
31. EXISTING CONDENSATE PUMP.
32. CONNECT NEW PUMPED CONDENSATE PIPING TO EXISTING PUMPED DISCHARGE PIPING FROM CONDENSATE PUMP.
33. EXTEND AND CONNECT NEW 1" STEAM PIPING INTO EXISTING 1" MOTIVE STEAM PIPE.
34. CONNECT NEW PUMPED CONDENSATE PIPE TO EXISTING. CONDENSATE PUMP RESENER TANK. OFFSET AT FLANGED CONNECTION TO CLEAR EXISTING VENT PIPING.
35. NEW OPENING INTO EXISTING CONCRETE UTILITY TUNNEL. COORDINATE WITH STRUCTURAL. SEE DETAIL 1 ON SHEET M-501 FOR PIPE SEAL.
36. EXISTING 4" VALVE SALVAGED FROM CONDENSATE PIPE DEMOLITION TO BE REUSED IN THIS LOCATION.
37. DROP CONDENSATE PIPING TO FLANGED CONNECTION AT CONDENSATE PUMP RESENER TANK.
38. EXPANSION JOINT. SEE DETAIL 10 ON SHEET M-501. (TYPICAL)
39. PIPE ANCHOR. SEE DETAIL 13 ON SHEET M-501.
40. CONTRACTOR TO INSTALL FLANGED PIPE SEGMENT IN AREA OF DEMOLISHED VALVE.

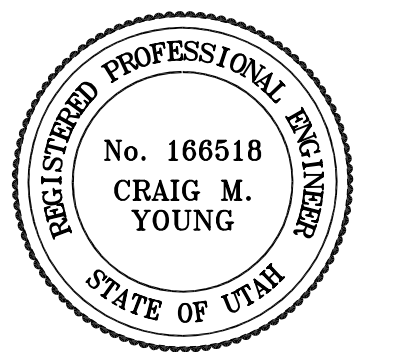
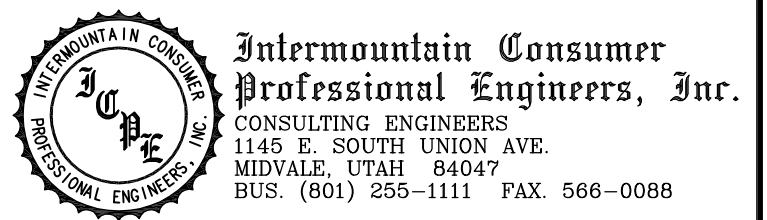
General Notes

1. REFER TO PIPE GUIDE SCHEDULE ON SHEET M-601 FOR TYPICAL GUIDES ASSOCIATED WITH PIPE SIZING.



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CENTRAL TUNNEL REPLACEMENT

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ISSUE DATE:		05/23/05
PROJECT NO:		10-095
CAD DWG FILE:		m-fp-301
DRAWN BY:		KPN
CHECKED BY:		ROT

SHEET TITLE

MH-1 THRU MH-3
ENLARGED MANHOLE
PLANS AND SECTIONS

M-301

SHEET 13 OF 22

